

TIMELINEZ

VOLUME 4 ISSUES 11/12 NOVEMBER/DECEMBER 1986 \$1.00

THE JOINT NEWSLETTER OF THE THREE TIMEX-SINCLAIR
USER GROUPS IN THE SAN FRANCISCO BAY AREA
** EBZUG PUG SVSTUG **

HAPPY
THANKSGIVING!

MERRY
CHRISTMAS

TERRIFIC
NEW YEAR



PRISON PROJECT REPORT

by Rita Toth

WE HAVE BEEN FORTUNATE TO HAVE HAD DONATIONS OF ZX81's AND A TS1000 FOR THE PRISONERS IN NEVADA.

NATE SHULMAN WAS ABLE TO OBTAIN FOUR ZX81's AT LOCAL FLEA MARKETS.

REX LUNDBREN CAME TO THE RESCUE AND GAVE HIS TIME AND EXPERTISE FOR THE NEEDED REPAIRS SO THAT THE COMPUTERS WOULD BE IN PERFECT WORKING CONDITION BEFORE BEING SENT TO THE PRISON.

JAMES GRIFFIS FROM THE SACRAMENTO USER GROUP, G.U.T.S., CONNECTED ONE OF THE ZX81 DONATIONS FROM NATE TO A CONVENTIONAL KEY BOARD AND ENCLOSED THE KEYBOARD IN A WOODEN CASE. LOOKS GOOD!

VIRGINIA CUNNINGHAM DONATED A NEW TS1000 ALONG WITH SOME TAPES TO THE PROJECT.

IN ADDITION TO COMPUTERS, THE DONORS ALSO DONATED BOOKS AND TAPES FOR BOTH KINDS OF COMPUTERS.

ALL OF THE EQUIPMENT HAD ALL OF THE NECESSARY EXTRAS, 16K MODULES, SWITCH BOXES, ETC. SO THAT THE COMPUTERS COULD BE PUT TO IMMEDIATE USE.

IT WOULD BE NICE TO HAVE A TS2068 DONATED. CHRISTMAS WILL BE HERE SOON AND IT WOULD MAKE A NICE PRESENT.

REMEMBER THAT ALL DONATIONS ARE TAX DEDUCTIBLE AND THIS YEAR WILL BE THE LAST YEAR THAT WE CAN TAKE THE CONTRIBUTION DEDUCTION WITHOUT USING SCHEDULE A.

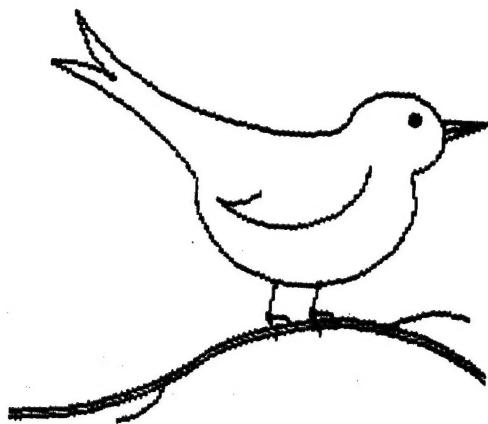
THANK YOU FOR HELPING WITH THE PRISON PROJECT. THE MEN IN THE PRISON TELL ME THAT THEY APPRECIATE OUR GENEROSITY.

GOOD WORK!!!

Here are a couple of programs I wrote to help me draw pictures for my Banners. "GUIDE" is a great aid in plotting. It starts on Line 9000 with a STOP on Line 8999 so that it can be MERGED with any program less than 8999 lines long. "CURVES" gives me a good idea as to how deep an arc will be. I used both in designing "BIRD", which I'm also enclosing, just for fun.

I have two Banner programs; one full-width and one half-width, and the bird can be placed at the bottom or the middle of the screen, depending on which Banner is being used.

I've gotten so much help from Timelinez that I hope this will be of help to someone else. If the same type programs have already been written and published, well, that's the computing business!



```

10 REM ..BIRD FOR MINIBAN OR
..MAXIBAN
15 REM ..LOAD "BIRD"
20 REM ..BY GERTIE ANDERSSON
..10/86
25 REM ..FOR MINIBAN LET N IN
..LINE 60 EQUAL 0.
..FOR MAXIBAN N CAN
..BE AS HIGH AS 70,
..BUT ABOUT 39 IS BEST.
60 LET N=0
70 FOR J=1 TO 2
100 LET X=120+N: LET Y=31: LET
A=24: LET U=24: LET P=1.25*PI
120 PLOT X,Y: DRAW A,-U,P
150 LET X=136+N: LET Y=63: LET
A=8: LET U=8: LET P=.25*PI
170 PLOT X,Y: DRAW A,-U,P
200 LET X=184+N: LET Y=159: LET
A=48: LET U=96: LET P=.375*PI
220 PLOT X,Y: DRAW -A,-U,P
250 LET X=112+N: LET Y=111: LET
A=8: LET U=80: LET P=1.125*PI
270 PLOT X,Y: DRAW A,-U,P
300 LET X=112+N: LET Y=111: LET
A=48: LET U=56: LET P=.1875*PI
320 PLOT X,Y: DRAW A,U,P
350 LET X=155+N: LET Y=143: LET
A=6: LET U=24: LET P=.1875*PI
370 PLOT X,Y: DRAW A,U,P
400 LET X=184+N: LET Y=159: LET
A=30: LET U=15
420 PLOT X,Y: DRAW -A,-U,P
450 LET X=104+N: LET Y=103: LET
A=18: LET U=56: LET P=.75*PI

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Best regards,

Gertie

Gertie Andersson

976 Temple Drive
Pacheco, CA 94553
415/682-8650

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470 PLOT X,Y: DRAW A,-U,P
480 LET A=4: LET U=16: LET P=.5
*PI
490 PLOT X,Y: DRAW A,-U,P
500 LET X=144+N: LET Y=4: LET A
=0: LET U=16
510 FOR I=1 TO 3
520 PLOT X,Y: DRAW A,U,P
530 LET A=A-4: NEXT I
540 LET A=183: LET Y=31: LET Z=
0
550 FOR I=1 TO 3
560 CIRCLE X,Y,Z
570 LET Z=Z+1: NEXT I
580 LET T=0
595 FOR I=1 TO 2
610 LET X=0+N+T: LET Y=175: LET
A=32: LET U=72: LET P=.25*PI
620 PLOT X,Y: DRAW A,-U,P
630 LET X=44+N+T: LET Y=79: LET
A=12: LET U=24: LET P=.125*PI
640 PLOT X,Y: DRAW -A,U,P
650 LET X=28+N+T: LET Y=0: LET
A=16: LET U=80: LET P=.375*PI
660 PLOT X,Y: DRAW A,U,P
670 LET X=56+N: LET Y=7: LET A=
8: LET U=32
680 PLOT X,Y: DRAW -A,U,P
685 LET X=1+N: LET Y=135: LET A
=16: LET U=16
690 PLOT X,Y: DRAW A,-U,P
695 LET T=T+3: NEXT I
700 LET F=0
710 FOR I=1 TO 2
720 LET X=68+N+F: LET Y=79: LET
A=17: LET U=3
730 IF I=2 THEN LET X=66+N+F: L
ET Y=63: LET A=15
740 PLOT X,Y: DRAW -A,U,P
750 LET A=5: LET U=4: DRAW -A,-U
760 LET A=4: LET U=0: DRAW -A,U,P
770 LET X=52+N+F: LET Y=Y+2: L
ET A=0: LET U=6
780 PLOT X,Y: DRAW A,-U,P
790 LET A=4: LET U=4: DRAW -A,-U
795 LET F=F+3: NEXT I
800 LET N=N+1: NEXT J

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8999 STOP
9000 REM ..GRAPHICS GUIDE
  ::BY GERTIE ANDERSSON
  ::9/86

9010 REM ..LOAD OR MERGE
  ::"GUIDE"

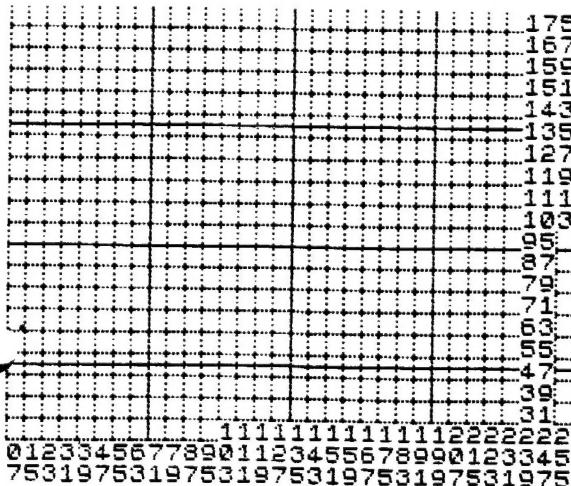
9020 REM ..PRINTS NUMBERED CHART
  ::FOR DESIGNING
  ::GRAPHICS. ENTER
  ::"GOSUB 9000" AT START
  ::OF PROGRAM.

9030 REM ..WHEN JOB IS DONE, BE
  ::SURE TO DELETE YOUR
  ::"GOSUB 9000" LINE
  ::AS WELL AS LINES 8999
  ::TO 9640

9100 GO SUB 9600
9110 FOR J=0 TO 21: FOR I=0 TO 3
1
9119 REM ..NOTE: "A" MUST BE
  ::ENTERED IN GRAPHIC
  ::MODE

9120 PRINT AT J,I;"A": NEXT I: N
EXT J
9130 PLOT 0,44: DRAW 255,0
9140 PLOT 0,88: DRAW 255,0
9150 PLOT 0,132: DRAW 255,0
9160 PLOT 64,0: DRAW 0,175
9170 PLOT 128,0: DRAW 0,175
9180 PLOT 192,0: DRAW 0,175
9200 LET I=175
9210 FOR J=21 TO 0 STEP -1
9211 FOR I=0 TO 21
9220 PRINT AT J,29;I: LET I=I-8
9230 NEXT J
9240 PRINT AT 19,12;"111111111111
1122222222"
9250 PRINT "01233456778901123455
678990123345"
9260 PRINT "75319753197531975319
753197531975"
9270 PRINT AT 0,0;
9280 RETURN
9599 STOP
9600 REM ..ME
9610 FOR Z=0 TO 7
9620 READ A: POKE USR "A"+Z,A: N
EXT Z
9630 DATA 128,0,128,0,128,0,128,
213
9640 RETURN

```



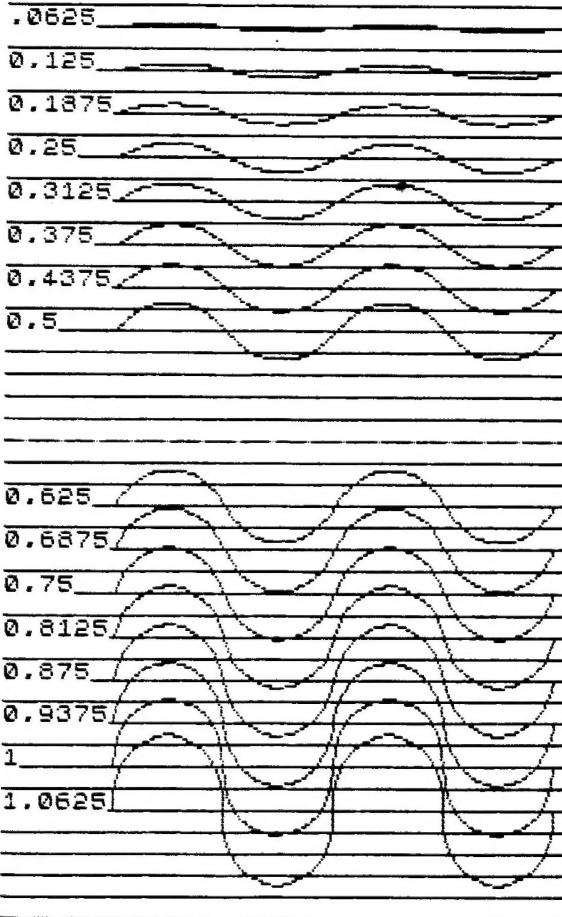
11111111111112222222
01233456778901123455678990123345
753197531975319753197531975

```

10 REM ..STUDY IN CURVES
15 REM ..LOAD "CURVES"
20 REM ..BY GERTIE ANDERSSON
  ::9/86

70 LET Z=2
80 LET P=.0625
90 FOR K=1 TO 2
95 GO SUB 500
100 LET X=100: LET Y=152
110 LET A=50: LET U=0
130 FOR J=1 TO 8
135 PRINT AT Z,J;P: LET Z=Z+2
140 FOR I=1 TO 2
150 PLOT X,Y
160 DRAW -A,U,P*PI
170 PLOT X,Y
180 DRAW A,U,P*PI
190 LET X=X+100: NEXT I
200 LET X=100: LET Y=Y-16: LET
P=P+.0625
220 NEXT J
230 LET P=P+.0625
240 PAUSE 100
250 COPY : CLS
255 LET Z=2
260 NEXT K
499 STOP
500 FOR I=0 TO 21
510 FOR J=0 TO 31
520 PRINT AT I,J;"-"
530 NEXT J: NEXT I
540 PRINT AT 0,0;
550 RETURN

```



TRANSMIT USING MTERM II

BY DAVID M. GRAY OF EBZUG

BASIC PROGRAMS

MTERM HAS TO FIRST BE LOADED INTO MEMORY, AND THEN EXECUTED. GO TO THE "BUFFER" MENU, AND SELECT THE "ERASE BUFFER" MODE. THE BUFSIZE SHOULD DISPLAY "0".

THE CONVERSION MUST BE SET FOR "HEX"

THE SCREEN SHOULD NOW DISPLAY:

BUF: CLOSE	XMIT: OFF	BUFTOT: 27256
DUP: FULL	WORD: 7	BUFUSD: 0
LF : ON	STOP: 1	BUFFRE: 27256
CR : OFF	PRTY: EVEN	BUFXMT: 0
CON: HEX	DSPW: 32	BUFPND: 0

THE NEXT STEP IS TO RETURN TO THE MAIN MENU, AND SELECT "EXIT TO BASIC".

MERGE YOUR BASIC PROGRAM THAT YOU WANT TO TRANSMIT IF YOU ARE TRANSMITTING YOUR BUFFER TO A FRIEND. "MERGE" MAKES THE PROGRAM "NON-AUTO RUN", AND IF THE PROGRAM IS LONG, IT MAY TAKE A WHILE FOR THE COMPUTER TO GIVE YOU A BASIC "K" CURSOR. THEN TYPE "PRINT USR 54016" TO START MTERM. THE BUFFER SHOULD NOW HAVE CHANGED. THE NEW NUMBER IN BUFSIZE SHOULD BE EQUAL TO THE NUMBER OF BYTES OF THE BASIC PROGRAM.

DOUBLE CHECK TO BE SURE THAT THE BUFFER IS CLOSED!!!

CALL YOUR FRIEND USING THE TERMINAL MODE, AND YOU CAN COMMUNICATE NORMALLY. YOUR FRIENDS BUFFER SHOULD BE CLOSED AND EMPTY & IDENTICAL TO THE CHART AT THE TOP OF THIS PAPER!

TELL YOUR FRIEND WHEN YOU ARE READY TO SEND YOUR BUFFER. YOUR FRIEND MUST THEN NOT TOUCH THE KEYBOARD!! THIS IS CRITICAL BECAUSE YOU ARE GOING TO OPEN YOUR FRIENDS BUFFER, AND IF YOU OR YOUR FRIEND TYPE ANYTHING, THE BUFFER WILL BE DESTROYED WITH NON-PROGRAM CHARACTERS.

PRESS "CONTROL R" (EG. HOLD CAPS SHIFT AND "7" AT THE SAME TIME, THEN PRESS "R". NOTHING SHOULD HAPPEN ON THE SCREEN OF THE PERSON WHO IS SENDING, BUT THE PERSON

WHO IS RECEIVING WILL RECEIVE AT THE BOTTOM OF HIS SCREEN "BUFFER OPEN". ONCE AGAIN GO TO THE MAIN MENU BY TYPING "CAPS "8" THEN SELECT "M"". GO TO THE BUFFER MENU BY ENTERING "D" THEN SELECT "T" (FOR TRANSMIT).

THE SCREEN WILL PROMPT "PROMPT STRING". JUST PRESS "ENTER"! THE SCREEN WILL NOW ASK "CHARACTER DELAY", AND AGAIN PRESS ENTER. THE BOTTOM OF THE SCREEN SHOULD NOW DISPLAY "XMIT: ON"!!!

EDITOR'S NOTE:

THERE ARE SOME WHO BELIEVE THAT TELECOMMUNICATION BETWEEN FRIENDS THROUGH A MODEM IS CUMBERSOME, AWKWARD, AND COMPLEX. THE FOLLOWING ARTICLE SHOULD DISPEL ANY SUCH NOTIONS!

PRESS ENTER TO RETURN TO THE MENU, AND THEN PRESS ENTER AGAIN TO ENTER TERMINAL MODE.

HEXIDECIMAL CODES SHOULD NOW APEAR ON THE SCREEN, SHOWING THAT THE PROGRAM IS BEING TRANSFERED INTO YOUR FRIENDS BUFFER. DO NOT PRESS ANY KEY!!!!

WHEN ALL BYTES ARE TRANSFERED, THE SCREEN CURSOR WILL STOP MOVING. PRESS "CONTROL T" (EG. HOLD CAPS SHIFT AND "7" THEN PRESS "T"). YOUR FRIENDS BUFFER WILL NOW CLOSE, AND YOU CAN TYPE AGAIN.

ASK YOUR FRIEND IF:

1. THE BUFFER OPENED
2. HEXIDECIMAL CHARACTERS WERE TRANSMITTED
3. HEX AND ONLY HEX WAS TRANSMITTED!!!
4. THE BUFFER CLOSED

IF YOUR FRIEND ANSWERS "NO" TO "ANY" OF THE ABOVE QUESTIONS, REPEAT THE ENTIRE PROCEDURE AGAIN (THIS HAS NOT HAPPENED TO ME YET).

IF YOUR FRIEND ANSWERS "YES", THEN TELL HIM TO HANG UP THE PHONE, AND CALL YOU USING HIS VOICE, NOT USING THE COMPUTER.

TELL HIM TO "GO TO THE MAIN MENU", AND PRESS "E" TO ESCAPE TO BASIC. HE SHOULD NOW SEE THE TOP OF THE BASIC PROGRAM YOU SENT HIM.

NOTE: AS YOU CAN SEE, I EXPRESSED THAT WHEN A BUFFER IS OPEN, YOU MUST NOT TYPE!! IT IS CRITICAL.

THE BUFFER OF THE PERSON WHO IS SENDING, SHOULD NEVER OPEN UP. EVER!

THE PERSON TRANSMITTING SHOULD BE CAREFULL TO FOLLOW DIRECTIONS "EXACTLY" OR THE BUFFER WILL BE DESTROYED.

DONT WORRY ABOUT DESTROYING THE BUFFER WHEN YOU ARE NOT IN TERMINAL MODE, OR WHEN YOU PRESS "CONTROL R" OR "CONTROL T".

IF THERE ARE ANY PROBLEMS, CALL VOICE AT (415) 754-2054 AND ASK FOR DAVID

OR WRITE:

DAVID GRAY - HELP
3505 BROOKDALE COURT
ANTIOCH, CA 94509

GOOD LUCK, AND HAVE FUN!

SOFTWARE REVIEW
by Walt Gaby

THE WORX!

THE THREE MAJOR COMPUTER PROGRAMS ARE WORD PROCESSORS, FILING ("DATA BASE MANAGEMENT") SYSTEMS, AND SPREAD-SHEETS. (OTHER POPULAR PROGRAMS DEAL WITH GRAPHICS AND WITH COMMUNICATIONS.) SEVERAL VERSIONS OF EACH OF THESE, OF COURSE, ARE AVAILABLE FOR THE TIMEX/SINCLAIR USER.

BUT WHAT HAS BEEN MISSING FOR THE T/S USER IS THE APPLICATION WHICH GROUPS SEVERAL SHORT-TERM USEFUL PROGRAMS TOGETHER FOR DESKTOP CONVENIENCE. THIS APPLICATION INCLUDES SUCH ON-GOING TASKS AS AN APPOINTMENT SCHEDULE, A TELEPHONE DIRECTORY, A RUNNING CLOCK, AND A NOTEPAD.

WE NOW HAVE SUCH A PACKAGE AVAILABLE FOR TIMEX-SINCLAIR USERS, "THE WORX!".

THIS MULTI-PROGRAM, WRITTEN BY ARIEL S. FRAILICH AND DAVID C. RIDGE, FEATURES THE FOLLOWING ON ITS MAIN MENU:

1 PLANNER	4 CALCULATOR	7 TIME
2 NOTEPAD	5 DECISION	8 SYSTEM I/O
3 TELEPHONE	6 BIORHYTHM	9 QUIT

THE TAPE COMES WITH THE TS-2068 VERSION ON ONE SIDE AND THE SPECTRUM VERSION ON THE OTHER. IT IS ACCCOMPANIED BY A 52-PAGE MANUAL.

AT START-UP, "THE WORX!" ASKS FOR THE CURRENT DATE. IT THEN PRESENTS THE MAIN MENU. (THE OVERALL SYSTEM OF MENUS IS PRESENTED ON THE FOLLOWING PAGE.)

PLANNER (A TIME SCHEDULE)

THE FIRST PROGRAM PRESENTS THE CALENDAR FOR THE CURRENT MONTH AND A MENU OF SCHEDULING OPTIONS. (THE DATE CAN BE CHANGED AT WILL.) UP TO 40 ACTIVITIES CAN BE ENTERED INCLUDING APPOINTMENTS OR THINGS TO DO. FOR EACH DATE, THESE ACTIVITIES ARE ENTERED EITHER BY CLOCK TIME OR BY TYPE OF ACTIVITY (SUCH AS "WRITE" OR "CALL" OR WHATEVER). ACTIVITIES ARE AUTOMATICALLY RANKED ON THE SCREEN AS THEY ARE ENTERED...SEQUENTIALLY FOR SPECIFIC-TIME ACTIVITIES AND ALPHABETICALLY FOR OTHERS.

ACTIVITIES CAN BE ADDED OR DELETED AS DESIRED. ANY ACTIVITY CAN BE SUBSEQUENTLY SEARCHED AND FOUND.

NOTE PAD

THIS PROGRAM EMPLOYS A MINI TEXT EDITOR FOR WRITING SHORT NOTES, REMINDERS, LISTS, ETC. EACH ENTRY (FILE) CAN INCLUDE UP TO 20 LINES OF 32 CHARACTERS EACH. IF DESIRED, THE 20 LINES CAN BE SORTED IN LEXICOGRAPHICAL ORDER.

TELEPHONE (A DIRECTORY)

THIS PROGRAM ALLOWS UP TO 50 ENTRIES OF TWO LINES EACH. THE USER CAN THEN SEARCH ANY SINGLE ENTRY OR CALL FOR A LISTING OF ALL. WHEN A SINGLE ENTRY IS FOUND, IT CAN BE EDITED FURTHER (UPDATED OR CORRECTED) OR DELETED.

CALCULATOR

SELECTING THIS OPTION PRESENTS A CALCULATOR ON THE SCREEN FOR DIRECT USE. WITH THE RELATED MENU, IT BECOMES A PROGRAMMABLE CALCULATOR.

USING THE COMPUTER KEYBOARD, THE CALCULATOR PROVIDES FOR ALL ARITHMETIC OPERATIONS (+ - * / =) AS WELL AS FIVE FUNCTIONS (LN SGN ABS SQRT EXP). IT ALSO ALLOWS FOR VARIOUS CHOICES FOR CLEARING, STORING, AND RECALLING.

DECISION

THIS IS A SIMPLE PROGRAM IN WHICH YOU ENTER UP TO 20 CONSIDERATIONS RELATED TO MAKING A DECISION (E.G., WHICH PRINTER SHOULD I BUY?). IT THEN PRESENTS EVERY PAIRED PERMUTATION OF THESE CONSIDERATIONS AND ASKS YOU TO INDICATE WHICH OF THE TWO YOU CONSIDER THE MOST IMPORTANT. BASED UPON YOUR RESPONSES, IT LISTS ALL OF THE CONSIDERATIONS IN ORDER OF IMPORTANCE.

BIORHYTHM

GIVEN YOUR DATE OF BIRTH, THIS PROGRAM PURPORTS TO CHART CYCLES OF YOUR PHYSICAL, EMOTIONAL, AND INTELLECTUAL PERFORMANCE FOR ANY SELECTED MONTH.

TIME

THIS PROGRAM ALLOWS THE USER TO SET A REAL-TIME CLOCK WHICH CONTINUALLY RUNS AT THE TOP OF THE SCREEN IN ALL OF THE PROGRAM MODES. OR IT CAN BE SET AS A TIMER...WITH TIME RUNNING DOWN TO ZERO AND THEN MAKING A DEEP SOUND. THIS PROGRAM ALSO PROVIDES A MAP OF THE WORLD SHOWING ALL TIME ZONES.

SYSTEM I/O

THIS ITEM FROM THE MAIN MENU PROVIDES A CHOICE OF FILE OPTIONS IN TERMS OF LOADING, SAVING, OR PRINTING FILES.

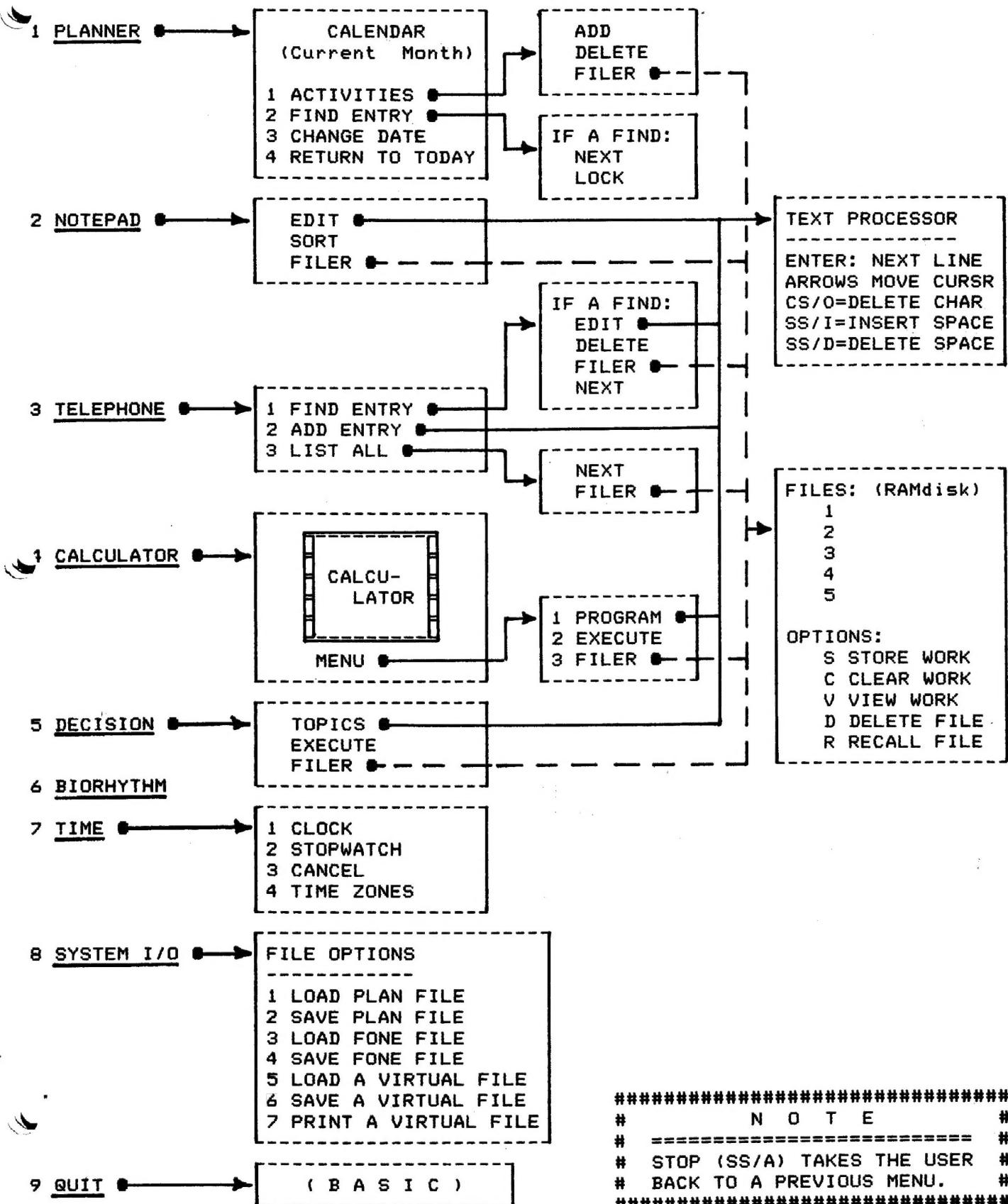
QUIT

THIS OPTION FROM THE MAIN MENU STOPS THE PROGRAM AND ALLOWS THE USER TO CUSTOMIZE THE BASIC PROGRAM.

(FOR MONOCHROMATIC MONITORS: IN LINE 9900, CHANGE BOTH 1's TO 0 AND THE 6 TO 7. THEN GOTO 9900.)

(CONTINUED ON PAGE 250)

THE WORK MENU SYSTEM



```
#####
#          N O T E      #
#  =====#
#  STOP (SS/A) TAKES THE USER      #
#  BACK TO A PREVIOUS MENU.      #
#####
```

A PARTICULARLY OUTSTANDING FEATURE OF "THE WORX!" IS A "RAMDISK" WHICH ALLOWS FOR THE STORAGE OF UP TO FIVE "VIRTUAL FILES". THE PRESENCE OF THIS FEATURE, KNOWN AS "FILER", MEANS THAT FILES CAN BE STORED AND RE-CALLED ON COMMAND INTO ANY OF THE VARIOUS MODES. FOR INSTANCE, IF ONE HAS DEVELOPED AN IMPORTANT PROGRAMMABLE FORMULA IN THE CALCULATOR MODE AND HAS STORED IT IN THE "RAMDISK", THIS FILE CAN BE RE-CALLED TO THE NOTEPAD PROGRAM FOR INCLUSION IN A MEMORANDUM.

COMMENTS

"THE WORX!" IS A VERY GOOD PROGRAM, INDEED! AND, AT A COST OF ONLY \$19.95 (PLUS \$3.00 FOR S&H), IT IS HIGHLY RECOMMENDED!

WHILE I HAVE NO RESERVATIONS ABOUT RECOMMENDING IT, I DO HAVE A FEW COMMENTS ABOUT HOW I BELIEVE THAT IT MIGHT BE IMPROVED IN ITS NEXT VERSION.

1. INCLUDE A START-UP MENU WHICH PROVIDES A SIMPLE SELECTION OF VARIOUS PRINTER AND PRINTER-INTERFACE CONFIGURATIONS. (FOR EXAMPLES OF THIS, SEE ZEBRA'S "GREETING CARD DESIGNER" OR "TECHDRAW" OR "MSCRIPT" WITH JACK BOHANNY'S VERSION 5 ENHANCEMENTS.)
2. ADD A MAILING LABLE PROGRAM.
3. PROVIDE FOR DIRECT DIALING OF THE TELEPHONE (THROUGH A MODEN) FROM THE TELEPHONE DIRECTORY. (I AM NOT SUGGESTING THE SENDING OR RECEIVING OF DATA.)
4. ALLOW FOR MORE VIRTUAL FILES ON THE RAMDISK.

IS THERE ROOM FOR THESE ADDITIONS??? I HAVEN'T THE FOGGIEST NOTION! BUT PERHAPS BY DROPPING "BIORHYTHM" (A FRIVOLOUS PROGRAM AT BEST), DROPPING "DECISION" (AN OVERLY SIMPLISTIC PROGRAM FOR REAL USE...A SPREADSHEET FORMAT ALLOWING FOR WEIGHTING WOULD BE MUCH BETTER), AND EVEN DROPPING THE WORLDWIDE TIME-ZONE MAP (WHILE VERY WELL DRAWN, IT WOULD NOT HAVE FREQUENT USE), ENOUGH SPACE MIGHT BE CREATED TO PROVIDE FOR THESE AND OTHER IMPROVEMENTS.

AGAIN...I RECOMMEND "THE WORX!" TO ALL READERS. LOADED FIRST THING EVERY MORNING, PARTICULARLY WITH A DISK-DRIVE SYSTEM, "THE WORX!" COULD VERY WELL BECOME THE MOST USED PROGRAM THAT YOU HAVE. IT CAN BE PURCHASED FROM:

NOVELSOFT
106 SEVENTH STREET
TORONTO, ONTARIO
CANADA M8V 3B4

EBZUG NEWS by John Ezike

SEPTMBR 18 MEETING: ALVIN LAM DEMONSTRATED THE "SPEAKWELL" VOICE SYNTHESIS PROGRAM (A 2068 PROGRAM PUBLISHED IN ZX-COMPUTING). A TWO-SECOND MESSAGE, RECORDED INTO A MIKE, IS THEN PLAYED BACK ON THE MONITOR SPEAKER. THE PROGRAM RAN O.K., BUT THE SOUND WAS NOT TOO CLEAR (DUE TO THE SPEAKER?). DAVID GRAY DEMOED TWO TS2068 GAMES... FIGHTER PILOT AND CYCLE. I ENJOYED "CYCLE" MORE (FAST-PACED AND GOOD GRAPHICS); THIS VERSION HAD BEEN MODIFIED BY FRED TEMPLETON. WE RAN OTHER SOFTWARE INCLUDING FROGGER AND MONOPOLY ON FRED JAMES' TS1000. TOM FATTARUSSO WAS ALSO AT THE MEETING; EXPECT SOME GOODIES FROM HIM IN THE NEAR FUTURE.

OCTOBER 23 MEETING: I REQUESTED MORE TIMELINEZ ARTICLES AND MORE MEMBER PARTICIPATION. I PROPOSED HAVING A SPEAKER AT EACH MEETING AND, ON A ROTATING BASIS, A MEETING ROOM CARETAKER. MEMBER RESPONSE WAS ENCOURAGING; JOE RANDALL AGREED TO BE THE SPEAKER AT THE NEXT MEETING AND TO OPEN UP THE MEETING ROOM! RIC JESCH OFFERED TO COORDINATE THE OPENING UP THE MEETING ROOM. RUSS ENGLISH SUGGESTED A MEMBERSHIP DRIVE AND ASKED MEMBERS TO DISCUSS THIS IDEA AT THE NEXT MEETING. WOODY MCPHEETERS DISCUSSED THE POSSIBILITY OF CHANGING THE MEETING DATE TO WEDNESDAYS AND ASKED DELINQUENT MEMBERS TO PAY THEIR DUES A.S.A.P.

OCTOBER MEETING THEME: "TALKING COMPUTERS". RIC JESCH SHOWED THE SPEECH SYNTHESIS UNIT WHICH HE BUILT. ITS COMPONENTS INCLUDE TWO RADIO SHACK CHIPS. THE SYSTEM CAN ACCEPT UP TO 14 CHARACTERS PER LINE. REPRODUCTION WAS A BIT ROBOT-SOUNDING; TO PRONOUNCE "TIMEX" CORRECTLY, "TYHEX" HAD TO BE ENTERED. HOWEVER, IT WAS SATISFACTORY IN PERFORMANCE. WOODY SHOWED US HIS DEVICE WHICH WAS PART OF A BLOOD CHEMICAL ANALYSIS UNIT ENABLING BLIND USERS TO HEAR RESULTS OF THE ANALYSIS. THE DEVICE PLAYED BACK ITS COMPLETE VOCABULARY: NUMBERS, THE ALPHABET AND WELL-PRONOUNCED WORDS SUCH AS "LITER". IT COMES WITH A 9 VOLT POWER SUPPLY AND INSTRUCTIONS AND IS AVAILABLE FROM B.G. MICRO. ALVIN LAM DEMONSTRATED HIS ZEBRA-TALKER; IT HAD NO PROBLEMS PRONOUNCING WORDS LIKE "TIMEX". THIS UNIT FEATURES THE VOTRAX SC1 PHONEME SYNTHESIZER AND HAS AN UNLIMITED VOCABULARY. WRITE ZEBRA SYSTEMS, 78-06 JAMAICA AVE., WOODHAVEN, NY 11421. DAVID GRAY DEMOED A TS2068 PROGRAM WHICH DISPLAYS A KALEIDESCOPE OF COLORS IN RESPONSE TO MUSIC. HE ALSO DISPLAYED A PICTURE OF A TIGER WHICH WAS DOWNLOADED BY A BL FROM COMPUSERVE AND THEN PORTED TO A TS2068. A PREVIEW OF FRED TEMPLETON'S SUPER "MONOPOLY" PROGRAM WAS DEMONSTRATED ON THE TS1000 BY FRED JAMES.

WANTED: INFORMATION ON A WEATHER FACSIMILE PROGRAM, SOMETIMES KNOWN AS "WEFAX" OR "FAX", FOR THE TS100 OR TS2068. I HAVE A LISTING OF THE 8-BIT ATARI FOR ANYONE INTERESTED IN CONVERTING IT TO EITHER OF THE T/S FORMATS. ALSO WANTED IS A WORKING TS1500. WRITE ME: 1619 GRANT STREET #6, BERKELEY, CA 94703.

AT THE NOVEMBER 20 MEETING, WE WILL SEE A FULL DEMONSTRATION OF FRED TEMPLETON'S MONOPOLY PROGRAM FOR THE TS1000. IT HAS SUPER GRAPHICS! ALSO, A DEMO OF HIS COMPLETED 100% MACHINE CODE WORD PROCESSOR AND WOULD YOU BELIEVE MULTITASKING, FOR THE TS2068! FINALLY, A SPECIAL TREAT FOR ALL T/SINCLAIR USERS, A VIDEO TAPE OF THE RECENT MIDWEST T/SINCLAIR COMPUTERFEST. BE THERE!!!

BASIC II

by Terry A. Greenlee

Here is a Program I wrote to convert Timex 1500 BASIC to an ASCII string variable and send it to another computer through my Memotech RS-232 interface. The Program runs on a TS1500 with the RS-232 and a 16k ram Pack added on.

First turn on the computer and it will autoset ramtop above the first 16k. This makes a perfect place above ramtop to store the Program we want to convert. Now load in the BASIC Program you want to convert and add these three Program lines to its end:

```
9997 FOR N=0 TO 10000
9998 POKE 32800+N, PEEK (16509+N)
9999 NEXT N
```

Then execute the Program with a RUN 9997. This will copy the contents of the BASIC area safe above ramtop. Now execute a NEW and LOAD "BASICII" which is the conversion Program listed below.

```
1 REM      "BASICII"
          COPYRIGHT 1986 BY
          TERRY A. GREENLEE
          ALL RIGHTS RESERVED
20 DIM R$(6000)
30 LET C$=""
40 LET L$=""
50 LET P$="00111010,00101000"
60 RAND USR 10900
65 LET A=PEEK 16400+256*PEEK 16
401+6
70 LET N=32799
80 POKE 16398,256*((A/256)-INT
(A/256))
90 POKE 16399,INT (A/256)
100 GOSUB 170
110 FOR N=32804 TO 45000
120 IF PEEK N=126 THEN LET N=N+6
130 IF PEEK N=118 THEN GOSUB 170
140 PRINT CHR$ PEEK N$
```

```
150 NEXT N
160 STOP
170 PRINT L$(C$);
180 IF PEEK (N+2)+256*PEEK (N+1)
>=9997 THEN GOTO 220
190 PRINT PEEK (N+2)+256*PEEK (N
+1);
200 LET N=N+5
210 RETURN
220 LET B=PEEK 16398+256*PEEK 16
399
225 FOR N=A TO B
230 IF PEEK N=128 AND PEEK (N-1)
=128 THEN GOSUB 260
240 NEXT N
250 GOTO 290
260 POKE (N-1),118
270 POKE N,113
280 RETURN
290 LET T$=R$(1 TO (B-A))
300 RAND USR 10895
```

BASICII redirects the standard output to the string array R\$. It can then PEEK the code for a character or character string from above ramtop and with a PRINT command convert that code to an ASCII string just like PRINT CHR\$ 234 ; will print REM. But instead of seeing it on the television screen each character R,E and M will be stored in R\$. This redirection is accomplished by changing the system variable that contains the address of the display file. Once a new address is Poked into this variable, it will increment and not reset as long as a semicolon is used in the Print statement.

The characters C\$ and L\$ are inverse spaces to mark "line feed" and "end of line" which are replaced with codes 118 and 113. Then R\$ is shortened to the exact size of the BASIC Program while making T\$.

Try converting a simple Program first and GOOD LUCK.

ZX-PC

BY

JOHN O. EZIKE

SINCE MY LAST ARTICLE I HAVE BEEN BUSY WITH VARIOUS PROJECTS AND HAVE NOT HAD THE TIME TO WRITE. STARTING IN THIS ISSUE I WOULD LIKE TO INTRODUCE YOU TO MY COLUMN, ZX-PC, IN WHICH I HOPE TO BRING YOU TS1000/ZX81 RELATED NEWS, PROGRAMS AND PROJECTS.

SOME OF THESE PROJECTS MIGHT BE FAMILIAR TO SOME OF YOU AND OTHERS WILL BE NEW. THIS COLUMN WILL CATER PRIMARILY TO TS1000 AND ZX81 OWNERS. MOST OF THE SOFTWARE AND SOME OF THE PROJECTS WILL BE COMPATIBLE WITH THE TS1500. WITH THE PROLIFERATION OF RELATIVELY INEXPENSIVE NAME BRAND COMPUTERS AND THEIR COMPATIBLES, IT SEEMS COUNTER PRODUCTIVE TO INVEST IN A COMPUTER THAT IS LIMITED TO A DEGREE IN ITS CAPABILITIES. EVEN WITHIN THE ZX/T3 FAMILY OF COMPUTERS, THERE EXIST MODELS BETTER SUITED TO TODAYS COMPUTING NEEDS. HOWEVER, FOR REASONS BEST KNOWN TO OWNERS OF 1000's AND 81's, PRIVATE INDIVIDUALS AND TIMEX/SINCLAIR VENDORS, THERE SEEKS TO BE EVEN MORE SUPPORT NOW THAN EVER BEFORE. LET US TAKE A WALK DOWN 'DOLLAR LANE' AND SEE WHAT IT WOULD TAKE TO BRING THIS LITTLE COMPUTER UP TO STANDARD. AT THIS POINT, I'M SURE A READER IS GOING TO SAY, "...BUT I AM SATISFIED WITH IT JUST AS IT IS." WELL, LET ME JUST SAY THAT LIKE ANY OTHER COMPUTER, THE TS1000 BENEFITS FROM ENHANCEMENTS IN BOTH HARDWARE AND SOFTWARE AND MAKES IT A BETTER AND DEFINITELY EASIER MACHINE TO USE.

NOW, BEFORE YOU CAN REALLY UTILIZE THE 1000, YOU NEED A MORE EFFECTIVE MEANS OF INTERFACING WITH IT AND BY THAT I MEAN A BETTER KEYBOARD. THERE HAVE BEEN NUMEROUS KEYBOARDS PRODUCED AND MOST WORKED SATISFACTORILY. I FOUND THAT THE BEST CHOICE FOR THOSE WHO WERE NOT INCLINED TO DO ANY SOLDERING, WERE KEYBOARDS LIKE THE SUNTRONICS(TM) KEYBOARD. IT REQUIRES ABSOLUTELY NO TECHNICAL EXPERTISE AND YOU SIMPLY REMOVE THE OLD CASE AND PLUG THE MOTHERBOARD INTO THE NEW KEYBOARD. FOR THOSE WHO HAVE SOME TECHNICAL BACKGROUND AND WHO WOULD LIKE TO HAVE THE BENEFIT OF EXTRA KEYS, THERE ARE A FEW ARTICLES ON CONVERTING THE SURPLUS TI 99/4A(TM) KEYBOARD IN COMPUTER TRADER MAGAZINE AND TS HORIZONS. THIS COULD RUN YOU FROM \$50 TO AS LITTLE AS \$10. A MORE EFFICIENT MEANS OF EXTERNAL STORAGE WOULD ALSO BE OF USE. A HUNTER BOARD USED WITH A FASTLOAD SOFTWARE LIKE ZXLR2(TM) OR QUICKLOAD(TM), A WAFER(STRINGY FLOPPY) DRIVE OR A DISK DRIVE AND INTERFACE GIVE YOU THREE CHOICES TO CHOOSE FROM, EACH HAVING IT'S DISADVANTAGES AND ADVANTAGES DEPENDING ON HOW MUCH YOU WISH TO SPEND AND WHAT YOUR NEEDS ARE. YOU ARE LOOKING AT \$50 TO \$400 IN COST.

IF YOU ARE TIRED OF DEALING WITH INTERFERENCE ON YOUR TV SET THEN REPLACING YOUR CHANNEL 2/3 UHF MODULATOR WITH A UHF CHANNEL 33 ONE, WOULD SURELY BE A RELIEF ON YOUR EYESIGHT. ALTERNATIVELY YOU COULD

DISPENSE WITH A TV ALTOGETHER AND USE A COMPOSITE VIDEO MONITOR. OF COURSE, YOU WOULD HAVE TO ADD A DIRECT VIDEO BOARD (POPULAR ELECTRONICS MAY 1983). YOU CAN ALSO PURCHASE AN ALREADY ASSEMBLED BOARD FOR ABOUT \$15. THE MONITOR CAN COST ANYWHERE FROM \$50 ON UP. NOW YOU CAN EVEN GET COLOR ON YOUR ZX-PC! WITH A JLD(TM) VIDEO BOARD (ABOUT \$100), AN EXPANSION BOARD AND COLOR MONITOR, THE ZX/T3 CAN DISPLAY COLOR THAT SURPASSES THAT OF THE TS2068 IN SOME WAYS. ALSO AVAILABLE IS A ROM UPGRADE THAT GIVES YOU AN APOSTROPHE IN PLACE OF THE POUND SIGN, LARGER DIMENSIONING AND LOTS OF OTHER FEATURES. COST IS UNDER \$25. YOU WOULD MOST DOUBTEDLY NEED SOME FORM OF HARDCOPY, NAMELY A PRINTER. A VISIT TO YOUR LOCAL DISCOUNT STORE OR SWAP MEET WILL NET YOU ONE FOR ABOUT \$200. YOU WILL ALSO NEED A SERIAL OR PARALLEL INTERFACE DEPENDING ON YOUR PRINTER. ADD ABOUT \$20. YOU SHOULD NOT FORGET THAT COMPUTING NO LONGER HAS TO BE IN ISOLATION. VIA MODEM AND COMMUNICATIONS SOFTWARE YOU CAN NOW COMMUNICATE WITH A FRIEND DIRECTLY OR EXPLORE A LOCAL BULLETIN BOARD SERVICE. BECAUSE OF RECENT PRICE CUTS, YOU CAN PURCHASE A WESTRIDGE(TM) 2050 MODEM FOR AS LITTLE AS \$25 UNCASED OR FOR A LITTLE MORE ONE THAT IS CASED. THE SOFTWARE RUNS ABOUT \$20. UTILIZING ALL THESE ENHANCEMENTS WITH MEANINGFUL SOFTWARE CAN BE ACCOMPLISHED USING 16K OF MAIN MEMORY, HOWEVER 64K WILL GREATLY INCREASE THE SIZE OF FILES YOU CAN HANDLE. CURRENT PRICES ARE IN THE \$70 RANGE.

YOU ALSO HAVE PROGRAMMING LANGUAGES LIKE PASCAL, FORTH, PILOT, M/L AND BASIC TO USE, SPREADSHEETS, WORD PROCESSORS, DATA BASES, ENTERTAINMENT AND EDUCATIONAL SOFTWARE AROUND. WHEN YOU ADD UP THE COST OF UPGRADING YOUR LITTLE COMPUTER IT MAKES YOU WONDER WHY YOU WOULD WANT TO PUT ALL THIS MONEY INTO A COMPUTER THAT IS NOT MS-DOS(TM), CP/M(TM) OR APPLE(TM) COMPATIBLE. WELL, WHY NOT? I HAVE NO ALL-ENCOMPASSING ANSWER FOR YOU EXCEPT THAT I ENJOY DOING IT. OVERALL COST MIGHT BE ANOTHER REASON AND MAYBE I AM JUST PLAIN ANTI-SOCIAL AND PREFER TO SUPPORT THE UNDERDOG. WHATEVER YOUR REASONS FOR OWNING AND USING A TS1000 OR A ZX81, YOU DEFINETLY OWN A COMPUTER THAT DOES WHAT YOU WANT IT TO DO FOR YOU.

THE PRICES I HAVE QUOTED ARE BY NO MEANS TYPICAL OF PRICES IN YOUR AREA, JUDICIOUS SHOPPING AND AN ABILITY TO BUILD OR HAVE A FRIEND OR ACQUAINTANCE HELP YOU WITH YOUR PROJECTS WILL DETERMINE HOW MUCH YOU ACTUALLY SPEND. DON'T FEEL SO PUT OUT THOUGH, IMAGINE BUYING A NAME BRAND COMPUTER AND HAVING TO UPGRADE IT TO YOUR SPECIAL NEEDS, YOU'LL COUNT YOURSELF LUCKY THAT YOU OWN A ZX81, TS1000 OR A TS1500. MOST OF THE UPGRADES CAN BE OBTAINED FROM TIMEX/SINCLAIR VENDORS WHO ADVERTISE IN THIS PUBLICATION OR SEND ME A S.A.S.E SPECIFYING WHAT IT IS YOU ARE INTERESTED IN AND I WILL DO MY BEST TO GET THE INFORMATION TO YOU. BYE FOR NOW UNTIL THE NEXT ISSUE.

JOHN O. EZIKE
1619 GRANT STREET #6
BERKELEY, CA 94703

* * * * * COMPUTER CALENDAR * * * * *

NOVEMBER

16 Peninsula User Group 1:00
Peninsula Hospital
1783 El Camino Real
Burlingame

20 East Bay User Group 7:30
West Branch Library
1125 University Avenue
Berkeley

26 Silicon Valley User Group 7:00
Cupertino Library
10400 Torre Avenue
Cupertino

DECEMBER

18 East Bay User Group 7:30

21 Peninsula User Group 1:00

30 Silicon Valley User Group 7:00

JANUARY 1987

18 Peninsula User Group 1:00

22 East Bay User Group 7:30

27 Silicon Valley User Group 7:00

* * * * * COMPUTER HOTLINE, Tuesdays, 6 pm
TV Station KSTS, Channel 48

* THE COMPUTER SHOW, Tuesdays, 7 pm
TV Station KTSF, Channel 26

* COMPUTER CHRONICLES, Fridays, 9 pm
TV Station KCSM, Channel 60

E B Z U G EAST BAY Z80 USER GROUP
===== 3128 KING STREET
BERKELEY, CALIFORNIA 94703
(415) 465-3116

CONTACT: RUSS ENGLISH

MEETINGS: FOURTH THURSDAY OF EACH MONTH, 7:30 P.M.
WEST BRANCH LIBRARY
1125 UNIVERSITY AVENUE, BERKELEY

MAKE CHECK FOR DUES PAYABLE TO "WOODY MCPHEETERS".

P U G PENINSULA USER GROUP
===== 311 MICHELLE LANE
DALY CITY, CALIFORNIA 94015
(415) 878-1773

PRESIDENT: GEORGE MOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.
PENINSULA HOSPITAL
1783 EL CAMINO REAL, BURLINGAME

MAIL DUES TO "PAT MORRISSEY", 2000 CRYSTAL SPRINGS ROAD,
BLDG 21, APT 22, SAN BRUNO, CA 94066

S V S T U G SILICON VALLEY SINCLAIR TECHNOLOGY USER GROUP
===== 6675 CLIFFORD DRIVE
CUPERTINO, CALIFORNIA 95014
(408) 253-3175

PRESIDENT: RITA CARR, (408) 738-2888, X-4579

MEETINGS: LAST TUESDAY OF EACH MONTH, 7:00 P.M.
CUPERTINO LIBRARY
10400 TORRE AVENUE, CUPERTINO

MAKE CHECK FOR DUES PAYABLE TO "SINCLINK".

THIS TIMELINEZ NEWSLETTER IS A JOINT PUBLICATION OF THE THREE
TIMEX-SINCLAIR USER GROUPS IN THE SAN FRANCISCO BAY AREA.

NEW MEMBERS AND VISITORS ARE ALWAYS WELCOME.

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FOR ONLY AN ANNUAL SUBSCRIPTION TO NEWSLETTER, SEND \$10 CHECK
PAYABLE TO: TIMELINEZ, P.O. BOX 1312, PACIFICA, CA. 94044

CONTEST UPDATE

California may have its lottery, but we have the TIMELINEZ NEWSLETTER CONTEST! This is the contest where YOU can determine your own odds of winning. All articles submitted thru the June 1987 issue will be liberally awarded points on a 1-3 scale. A drawing based on points

will be held in August of 1987 and the winner will receive a prize worth at least \$100 (probably a new computer).

SVSTUG NEWS

by Bill Miller

Upcoming GUTS/SV meetings (7:00-10:00 P.M.)

November 26, Wednesday (Cupertino Library)

December 30, Tuesday (El Camino Hospital, Meeting Room A-in basement)

January 27, Tuesday (El Camino Hospital, Meeting Room A-in basement)

At the B60930 GUTS/SV (SVSTUG?) meeting Rich Silva demonstrated his pop-up auto-dialer program which he wrote entirely in machine code.

Thanks to Sy Stein for scheduling the El Camino Hospital for our December and January meetings since we will no longer be able to use the Cupertino Library while it is being enlarged, 6 months to a year.

We won't be able to use El Camino Hospital after January, can anyone help us to find a new meeting spot for after that?

Thanks to new member William J. Pedersen of Grand Rapids, MI, for contributing 12 articles (70 pages) for TIMELINEZ. Four of the articles are about Bank Switching for the TS2068.

Welcome to new member, Mark Wahl.

The following points have been accumulated to date. (These totals do not include material in this issue.)

Points	Name
15	Norm Lehfeldt
9	Bill Miller
8	Walt Gaby
6	John Ezike
5	George Mockridge
4	Rita Toth
3	Gertie Andersson
3	Russ English
3	John Hancock
3	Steve Ishii
3	Terry Greenlee
3	Warren Reed

Be sure and get your TIMELINEZ articles sent in as soon as possible so that you can participate in the excitement!

Managing Editor Walt Gaby
Editors

EBZUG John Ezike
PUG G. Mockridge

SVSTUG Bill Miller

Advertising

PUG Norm Lehfeldt
EBZUG Bill Strick

N/L Exchange Rite Carr

Advertising Schedule

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1/4 Page \$15
1/8 Page \$10

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